

# Curriculum Vitae for Sally Dawson

## ***Address***

Physics Department, Brookhaven National Laboratory

Upton, N.Y. 11973

Phone: 631-344-3854

<http://quark.phy.bnl.gov/~dawson>

## ***Education***

Ph. D in Physics from Harvard University, 1981

B.S. in Physics and Mathematics from Duke University, *Summa Cum Laude*, 1977

## ***Professional Experience***

2008-present, Senior Scientist, BNL

2005-2007, Chair, Physics Department, BNL

2001-present, Adjunct Professor, Yang Institute for Theoretical Physics, Stony Brook

1998-2004, Group leader, High Energy Theory, BNL

1986-2008, Assistant/Associate/Physicist, BNL

1983-1986, Research Associate, Lawrence Berkeley Laboratory

1981-1983, Research Associate, Fermilab

## ***Committee Membership, Other Professional Activities***

2014, Member, Nuclear Physics B Editorial Board

2013-2018, Member, Munich Max Planck Advisory Board

2012, Member, Chinese 100 TeV Physics CFHEP Advisory Board, Physics Coordinator

2012-present, Chair, TASI Scientific Advisory Board

2012-present, Chair, APS Nominating Committee

2010-2012, Member, SLAC PPA Advisory Committee

2006-2010, Member, AAAS Physics B Executive Committee

2007-2008, Chair, Fermilab Program Advisory Board

2006-2010, Member, Santa Barbara KITP Advisory Board

2002-2006, Chair/Vice Chair/Past Chair, Division of Particles and Fields, APS

2004-2006, Vice Chair, EPP2010 , Committee of the National Research Council  
 2004-2006, Member, International Committee for Future Accelerators  
 2002-2008, Member, U.S. Linear Collider Steering Committee  
 2002-2004, Member, URA Visiting Committee, Fermilab  
 1999-2002, Member, High Energy Physics Advisory Panel  
 1999-2002, APS Divisional Councilor  
 1997, Member, HEPAP subpanel on The Future of High Energy Physics  
 1997-2000, Member, APS Committee on the Status of Women in Physics  
 1995-2004, Associate Editor, Physical Review D  
 1994-1996, Member, Executive Committee of the DPF, APS  
 1991-1993, Member, SSC Program Advisory Committee

### ***Honors and Awards***

2006, Fellow of the American Association for the Advancement of Science  
 1998, APS Centennial Speaker  
 1995, Fellow of the American Physical Society  
 1995, Town of Brookhaven, Woman of the Year in Science

### ***Significant Publications***

S. Dawson *et al*, *Higgs Working Group Report of the Snowmass 2013 Community Planning Study*, arXiv:1310.8361.  
 S. Dawson and E. Furlan, *A Higgs Conundrum with Vector Fermions*, Phys. Rev. **D86** (2012) 015021.  
 S. Dawson and M.-C. Chen, *One Loop Radiative Corrections to the rho Parameter in the Littlest Higgs Model*, Phys. Rev. **D70** (2004) 015003.  
 S. Dawson, L. Orr, L. Reina, and D. Wackeroth, *Associated Higgs Production with Top Quarks at the Large Hadron Collider: NLO QCD Corrections*, Phys. Rev. **D67** (2003) 034022.  
 S. Dawson, L. Orr, L. Reina, and D. Wackeroth, *Next to Leading Order Results for  $t\bar{t}$  Production at the Tevatron*, Phys. Rev. Lett. **87** (2001) 201804.  
 S. Dawson, S. Dittmaier, and M. Spira, *Neutral Higgs Boson Pair Production at Hadron Colliders*, Phys. Rev. **D58** (1998) 115012.  
 S. Dawson, *Radiative Corrections to Higgs Boson Production*, Nucl. Phys. **B359** (1991) 283.

J. Gunion, H. Haber, G. Kane, and S. Dawson, *The Higgs Hunters Guide*, Addison-Wesley (Menlo Park) 1990.

P. Nason, S. Dawson, and R. Ellis, *The One Particle Differential Cross Section for Heavy Quarks Production in Hadronic Collisions*, Nucl.Phys. **B327** (1989) 49.

P. Nason, S. Dawson, and R. Ellis, *The Total Cross Section for the Production of Heavy Quarks in Hadronic Collisions*, Nucl.Phys. **B303** (1988) 607.

S. Dawson, E. Eichten, and C. Quigg, *Search for Supersymmetric Particles in Hadron-Hadron Collisions*, Phys. Rev. **D31** (1985) 1582.

S. Dawson, *The Effective  $W$  Approximation*, Nucl.Phys. **B249** (1985) 42.